

## **STATEMENT OF WORK**

### **Waste Treatment (629)**

**These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.**

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#### **Licensure**

Florida Statute Title XXXII, Regulation of Professions and Occupations, Chapter 471, Engineering, regulates the practice of engineering in Florida and provides the definition of engineering in Chapter 471.005(7). Technical assistance for this engineering conservation practice may be considered the practice of engineering and subject to licensure requirements of Florida Statute Chapter 471. It is the responsibility of the individual providing technical assistance to determine and verify whether this practice is subject to Florida Statute Chapter 471.

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#### **DESIGN**

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##### **Deliverables**

1. Design documentation that will demonstrate that the criteria in Florida NRCS practice standard have been met and are compatible with other planned and applied practices.
  - a. Practice purpose(s) as identified in the conservation plan.
  - b. List of required permits to be obtained by the client.
  - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities.
  - d. List of facilitating practices.
  - e. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Objectives and outcomes of implementation.
    - ii. Process diagram showing volumetric flow rates, waste load projections, unit process volumes and hydraulic retention times, projected air emissions, and projected nutrient fate.
    - iii. Expected system performance.
    - iv. Annual operating costs where appropriate.
    - v. Quantities and fate of any byproducts.
    - vi. Control system requirements.
    - vii. Process Monitoring requirements.
    - viii. Safety Considerations (NEM Part 503- Safety, Subpart A).
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. Documentation showing the facility or process has achieved the intended purpose in similar situations and locations.
4. Design Report per NEM Part 511, Subpart B -Documentation, 511.11.
5. Quality Assurance Plan (NEM Part 512 - Construction, Subpart D - Quality Assurance Activities).
6. Operation and Maintenance Plan as per NRCS National Operation and Maintenance, Part 500, Subpart D.

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7. Certification that the design meets NRCS standards and specifications and is in compliance with applicable laws and regulations.
8. Design modifications during installation as required.
9. All documents signed and sealed in accordance with Florida Statute Chapter 471 or documentation from the Florida Licensing Board stating that the practice is not subject to the requirements of Chapter 471.

## **INSTALLATION**

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### **Deliverables**

1. Pre-construction conference with client and contractor and signed form FL-ENG-40.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection.
  - a. Actual materials used (NEM Part 512 - Construction, Subpart C – Evaluation of Construction Materials; Subpart D ÷ Quality Assurance Activities).
  - b. Inspection records
  - c. Document compliance with Quality Assurance Plan.
5. Facilitate and implement required design modifications with client and original designer/system provider.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

## **CHECK OUT**

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### **Deliverables**

1. Check out notes as specified in the Florida Supplement, NEFH, Part 650, Chapter 1.
2. As-Built documentation
  - a. Extent of practice units applied.
  - b. As-built drawings as per NEM, Part 512 – Construction, Subpart F – As-Built.
  - c. Final quantities installed.
  - d. Record of application including type and size of components installed.
3. Startup data showing facility or process is working as intended.
4. Certification that the facility or process meets Florida NRCS standards and specifications and is in compliance with permits NEM Part 505 – Non NRCS Engineering Services, Subpart A.
5. Test results and interpretations as required.
6. Progress reporting.

## **REFERENCES**

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- Florida NRCS Field Office Technical Guide (FOTG), Section IV, Conservation Practice Standard – Waste Treatment, 629

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- Florida Supplement, National Engineering Field Handbook (NEFH), Part 650, Chapter 1, Procedure for Documenting, Planning, Design, Construction, and Checkout of Engineering Conservation Practices
- NRCS Agricultural Waste Management Field Handbook (AWMFH)
- NRCS National Engineering Manual (NEM)
- NRCS National Operation and Maintenance Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook

### **STATE CONTACT**

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